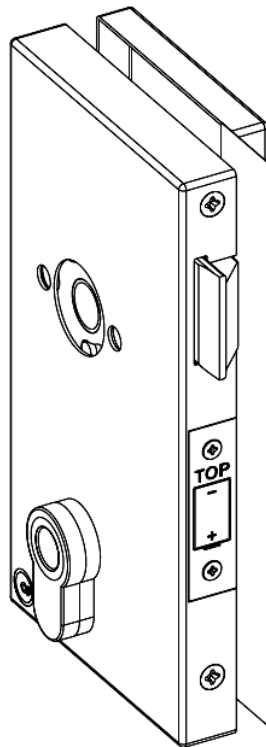


Operating instructions

Comfort system for glass doors
ES7650, ES6650



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1 Introduction

About these instructions

These instructions contain important information on operation of the ES7650 and ES6650 Comfort system for glass doors.

- Read through the instructions carefully.
- Keep the instructions in a safe place and pass them on to each subsequent owner/user of the ES7650 and ES6650 Comfort system for glass doors.

Explanation of the symbols and signal words used

 WARNING	Indicates hazards which could result in severe or fatal injuries.
 CAUTION	Indicates hazards which could result in minor or moderate injuries.
CAUTION	Indicates hazards which could result in damage to property.
Note	Indicates information and tips for optimum use of the instructions and the product.

Target group

These instructions are directed at competent personnel entrusted with the servicing, care, disposal and maintenance of fault free operation of Comfort systems for glass doors and who can prove that they have received suitable training for these activities or have appropriate experience.

OPERTIS Support

If you have any questions which are not answered by the information provided in these instructions, please contact

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Up-to-date information

All details of the product, images, dimensions and versions are correct at the time of delivery of the product. We reserve the right to make changes in line with technical progress and the resulting continuous improvement process of our products.

The current version of these instructions and further information is also available on our internet site www.opertis.de.

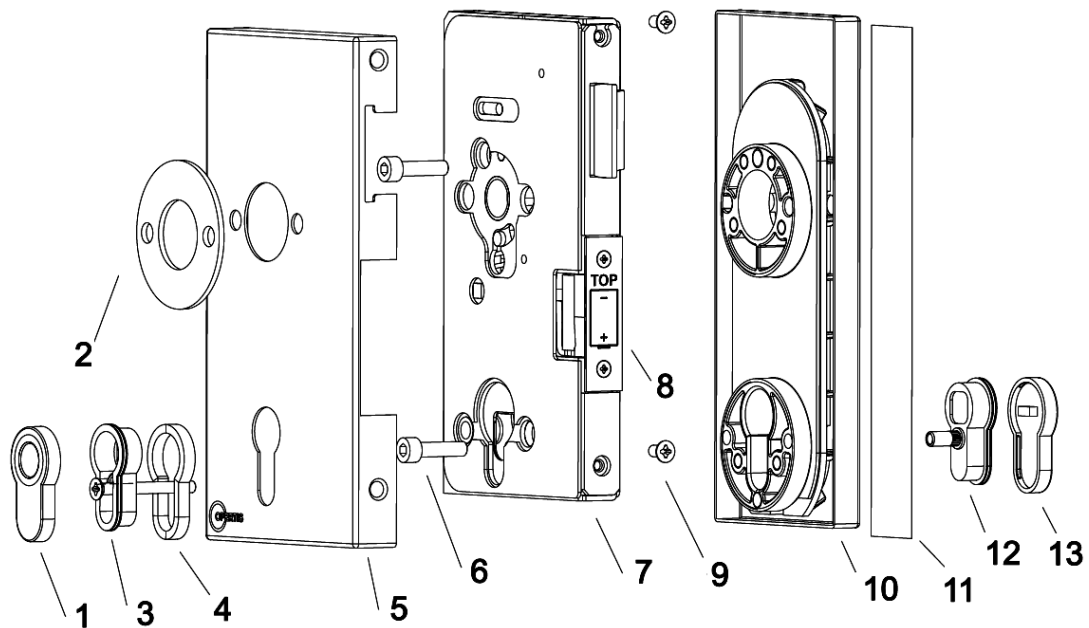
Dated 06/2013

2 Product Description

Component parts

The following drawing shows the component parts of the Comfort system for glass doors:

(Layout for an inward-opening door)



1	Profile cylinder cover with Open button (inside)
2	Spacer with plastic ring
3	Profile cylinder housing with fixing screw
4	Profile cylinder spacer sleeve
5	Cover cap / lock side
6	Lock / patch fitting (clamping plate) fixing screws
7	Lock insert
8	Battery compartment with fixing screws and battery
9	Fixing screws for the cover cap of the lock
10	Patch fitting with cover cap and plastic rings
11	Decorative strip, self-adhesive
12	Profile cylinder housing with screw fixing
13	Profile cylinder cover (outside)

Functional principle

The OPERTIS eLOCK locking system ensures continuous, consistent fitout of a building. Special fitting solutions are available for different door types.

The Comfort system for glass doors locks doors via the integrated latch, there is no bolt.

The lever handles have no function when they are uncoupled. They can be actuated (moved up and down), but have no connection to the latch. The door cannot be opened with the lever handles. In this state the latch is locked and cannot be pushed in.

In the coupled state the lever handles pull back the latch when actuated. The door can therefore be opened as usual using the lever handles.

The coupling and uncoupling take place electromechanically. The lever handles remain coupled or uncoupled until an authorised identifier is again held in front of an antenna. Depending on the variant of the Comfort system for glass doors, the lever handles can be coupled and decoupled continuously or coupled for a short time by pressing the Open button on the inside.

There is no locking in the conventional sense, with a knob or key; mechanical unlocking or locking is no longer necessary.

The management and programming of the fittings, including the issue of access authorisations, is carried out using the eLOCK Center management software. Optional programming with eLOCK LernLöschen using three programming keys and without additional software is also possible.

Various types of passive identifiers without their own power supply, such as key fobs or cards, are available for authorisation at the fittings.

Variants of the Comfort system for glass doors

A differentiation is made between the following variants of the Comfort system for glass doors:

Art. No. Name	Release mode of the Open button (usually inside of the door)
ES7650B ES6650B	Short-term release mode → If the Open button is pressed the lever handles are briefly coupled to enable one-off door opening. The door levers are uncoupled again after approx. 20 sec.
ES7650E ES6650E	Continuous release mode → If the Open button is pressed the lever handles are coupled or uncoupled until the Open button is pressed again.

Detailed Information

Further information on the product is given in Section 8 "Product specification".

3 Intended Use

Area of use

The Comfort system for glass doors essentially corresponds to the properties of the DIN 18251 and EN 12209. The installation dimensions are adapted to installation on customary glass doors sold with fixing holes located below each other (office type) and a glass thickness of 8 to 12 mm. Lever handles with roses for through-screw fixing (screw spacing 38 mm). Installation of escutcheons is not planned.

Use on external doors, fire doors, escape route doors or outdoors, e.g. in fences, is not allowed.

Condition of the product

Comfort systems for glass doors may only be used if they are in faultless technical condition.

Independent modifications and changes to the product are not allowed.

Ambient conditions

Use in particularly difficult environments, e.g. aggressive gases, high humidity, extreme temperatures or very dusty environment is not allowed. If you have any questions, please contact OPERTIS Support.

Power supply

All battery operated fittings activate acoustic "battery empty" warnings and controlled false closures when the battery power in the fitting is drawing to an end. The battery should then be replaced without delay.

In the event of repeated ignoring of the battery empty warning the Comfort system for glass doors couples the lever handles continuously closed (Active Power Off). The Active Power Off state is signalled by an acoustic warning (see Operating Instructions Chapter 5 Operation and Control). This state is retained until the battery is replaced or if applicable an external power supply is provided on the outside of the door beforehand.

Residual risk

If used properly, as intended and in compliance with the maintenance instructions, this product will help to maintain your property security.

However, the following residual risks cannot be excluded:

- If the electromechanical components fail there is a risk of being locked in or out. In this case it is only possible to open the door by means of a mechanical emergency opening.
- If the battery is suddenly and completely discharged the Comfort system for glass doors does not work. It does not signal any battery warnings and does not switch to the Active Power Off state. The door can then only be opened from the outside of the door using the external power supply (EPS) ES6781 for ES5000 plus systems or ES7781 for eLOCK and eLOCK LernLösch systems.

4 Safety Instructions

The following safety instructions must be noted and followed before use! OPERTIS does not accept any liability whatsoever for personal injuries or damage to property caused by failure to follow these instructions!



WARNING

Risk of personal injuries due to the battery

Improper handling of the battery can result in health damage.

Note and comply with the following instructions:

- Only use batteries supplied or approved by OPERTIS.
- Do not open, solder or weld the battery.
- Do not throw the battery in a fire.
- Do not recharge the battery.
- Remove the empty battery from the fitting immediately.
- Keep the battery out of reach of children.
- Do not touch a leaked battery without appropriate protection. Do not bring into contact with the eyes or mouth.

**WARNING****Risk of personal injuries and damage to property**

If the door is closed do not allow any forces to be transferred onto the latch, or at the most, low forces. Otherwise increased effort is required to press the coupled lever handle. This can result in irreparable damage to the Comfort system for glass doors.

Avoid excessive force transfer onto the latch, for example, due to the wrong door seals.

**CAUTION****Risk of damage to property**

Malfunctions can occur if unapproved types of battery are used. The fitting then does not signal any battery warnings and does not switch to the secured final state of Active Power Off.

Only use battery types approved by OPERTIS.

CAUTION**Risk of damage to property**

Electronic components can be irreparably damaged if touched. Note and follow the regulations and instructions in the EN 61340-5-2 standard!

CAUTION**Damage to property due to locked latch**

If the lever handle is uncoupled the latch is locked to prevent authorised access by pushing in the latch manually, e.g. with a card or a hook. If the lever handles are uncoupled when the door is open the door cannot be closed, as the locked latch hits the strike plate. In this case the lock and strike plate can be irreparably damaged. Before closing the door again, press the Open button or hold an authorised identifier at the antenna.

CAUTION**Unauthorised access**

It is possible to open the door from the inside continuously or for a short time, depending on the Comfort system for glass doors variant.

Please bear this in mind, especially if using the fitting on doors where the inside Open button can be easily accessed from the outside.

CAUTION**Unauthorised access**

Use of the Comfort system for glass doors is only allowed for shoulder guided lever handles. This ensures that, apart from the torque required to actuate the lever handle, no other forces are transferred onto the lock follower. Use of different lever handles can cause malfunctioning of the Comfort system for glass doors and resulting unauthorised access.

CAUTION**Unauthorised access**

In the as-delivered condition the Comfort system for glass doors is in construction site mode. Access is possible with any OPERTIS identifier, even if unprogrammed.

Immediately following installation you should program the authorisations to prevent unauthorised access; refer to the eLOCK software system documentation. At the same time, check the date and time and if necessary reset.

CAUTION**Risk of malfunctions****Unauthorised access**

With the Comfort system for all-glass doors it is only possible to connect an external power supply from the outside (profile cylinder cover without Open button). If the EPS is connected to the inside (profile cylinder cover with Open button) no external power supply is connected. In the Active Power Off state coupled lever handles remain coupled until an external power supply is connected properly. Therefore access is possible for all. The external power supply must be connected to the outside of the door.

5 Operation and Control

Programming fittings and identifiers

Fittings and identifiers are programmed using the eLOCK Center management software or the eLOCK LernLöschen system.

More detailed information is given in the eLOCK system documentation - software.

Replacing the battery

CAUTION

Risk of being locked in or out

Without a properly functioning fitting, the door cannot be opened when the latch drops into the lock.

- Always leave the door open when changing the battery.
- After changing the battery, an identifier or the Open button must be used to operate the Comfort system for glass door once.
- Ensure that the door can be opened any time without using the fitting.

Note

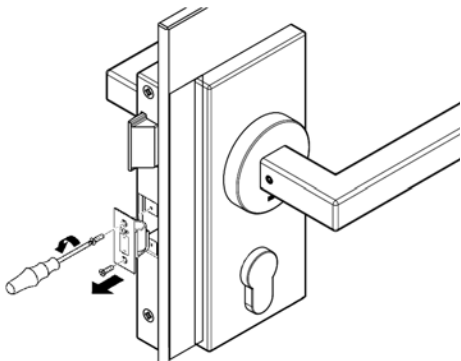
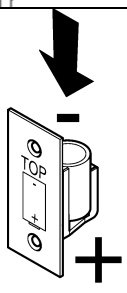
Only use new, unused batteries in the fitting.

- The fitting only leaves Active Power Off or battery empty mode if a new battery is inserted.
- If a used battery is inserted in the fitting during normal operation, a premature battery empty warning can occur.

Note

Note the details of the battery type given in the "Technical Data" section.

Proceed as follows:

Step	Activity	Figure
1	Open the door and undo the two screws of the battery compartment.	
2	Pull out the battery compartment and remove the empty battery.	
3	Insert the battery in the battery compartment with the plus pole facing downwards.	
4	Insert the battery compartment back in the forend and fasten with the two screws.	
5	Check the date and time and if necessary reset: see eLOCK software system documentation.	
6	Perform a locking operation by holding an identifier in front of the scanner or by pressing the Open button.	

Electronic opening (ES7650B and ES6650B only)

CAUTION

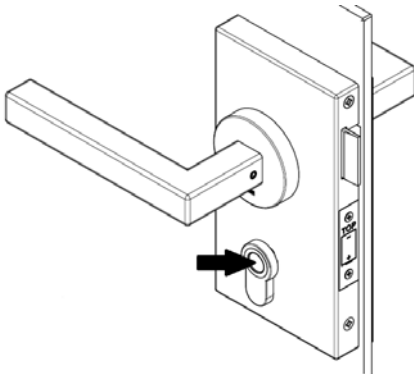
Damage to property due to locked latch

- Approx. 20 seconds after pressing the Open button the latch is locked again. By then the door must be closed, as otherwise on attempting to close the door the locked latch hits the strike plate. In this case the lock and strike plate can be irreparably damaged. Before closing the door again, press the Open button or hold an authorised identifier at the antenna.
- If an automatic closing mechanism is used, ensure that it closes the door within 20 seconds.

The Comfort system for glass doors can always be opened from the inside using the Open button.

In the case of already coupled lever handles the Open button has no function.

Proceed as follows:

Step	Activity	Figure
1	<p>Press the Open button on the profile cylinder cover on the inside.</p> <p>The lever handles are coupled for approx. 20 seconds and are then uncoupled again.</p>	

Mechanical opening

CAUTION

Unauthorised access

- Following the emergency mechanical opening the lever handles are coupled continuously, i.e. the door is not locked and access is possible for all.
- The Comfort system for glass doors can then only be reset to normal operation by a support deployment or directly at OPERTIS.
- In this case, contact OPERTIS support immediately!

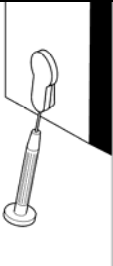
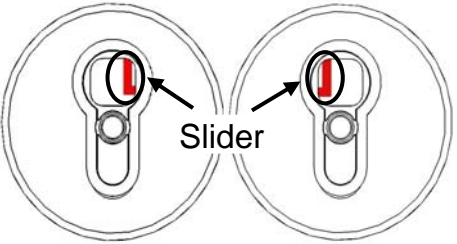
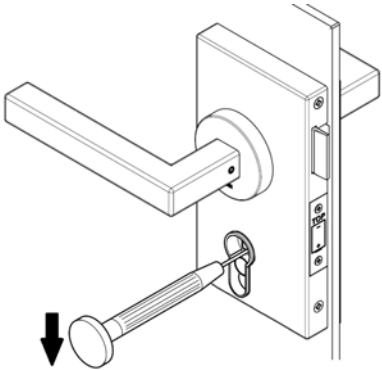
CAUTION

Damage to property

- In the case of alternative emergency mechanical openings the door and possibly the Comfort system for glass doors and the fitting are damaged.
- Following the mechanical opening the latch is locked. If an attempt is made to close the door the latch hits the strike plate. The Comfort system for glass doors and the strike plate could be damaged irreparably. It is only possible to close the door by pressing the lever handle at the same time.
- The Comfort system for glass doors and possibly the door and fitting must be replaced.

If the Comfort system for glass doors can no longer be opened in normal operation (e.g. no authorised identifiers available or detected or opening with the EPS fails), then an emergency mechanical opening must be performed to open the door.

Proceed as follows:

Step	Activity	Figure
1	Position a slot-head screwdriver (type 2.5mm) on the bottom edge of the inner or outer profile cylinder cover and carefully remove the profile cylinder cover from the profile cylinder housing.	
2	Position a slot-head screwdriver (type 4mm) underneath the red sliding element in the profile cylinder opening and push it upwards until it latches into position. The lever handle is coupled mechanically and can be actuated. The latch is drawn back and the door can be opened.	<p>Front view</p>  

Acoustic signals

The acoustic signals of the Comfort system for glass doors depend on the programming. The programmed fittings in the LernLösch system and the fittings programmed via eLOCK Center have different signalling concepts.

Note

All acoustic signals are given in the eLOCK system documentation, "Signalling concept" section.

Acoustic signal	Meaning
1x rising tone sequence.	Programming mode on.
1x rising tone sequence.	Programming mode end (automatic).
1x short high.	Fitting switched on by authorised identifier.
1x long low (bass).	No fitting switched on, identifier not authorised.
1x long low + 5x short high tone sequence.	Battery empty, warning level 1 with controlled failed closures
1x long low + 3x short high tone sequence.	Active Power Off, battery completely discharged
1x short high.	Fitting switched on in construction site mode or continuous release mode, see eLOCK system documentation, "Fitting modes" section.
1x long low + 4x short low	System error! Dismantle the Comfort system for glass doors and contact OPERTIS support!

6 Servicing, cleaning and maintenance

Servicing, cleaning and maintenance may only be carried out by qualified personnel.

We do not provide any warranty whatsoever for damage caused by improper handling.

Intervals

Activity	Interval
Cleaning and maintenance	3 months
Maintenance	1 year

Cleaning and maintenance

CAUTION

Material damage due to incorrect cleaning

Incorrect cleaning can cause attack and damage to the surfaces:

- Clean the Comfort system for glass doors from the outside only.
- Do not use alkali, acidic or chlorine-containing cleaning agents.
- Do not use cleaning agents containing abrasive additives.
- Do not use abrasive instruments, e.g. brushes.
- Do not allow oil or grease to get inside the lock case.
- Do not let any cleaning agents to get inside the lock case.

Proceed as follows:

Step	Activity	Figure
1	Wipe down the surfaces with a damp cloth.	

Servicing



CAUTION

Risk of being locked in or out

Without a properly functioning fitting, the door cannot be opened when the latch drops into the lock.

Carry out functional checks while the door is open.

The following functional checks must be carried out once a year:

Step	Activity	Result
1	Inside of the door: ES7650B and ES6650B: Hold authorised OPERTIS identifier in front of the antenna. ES7650E and ES6650E: Press the Open button.	The lever handles are coupled or uncoupled.
2	Outside of the door: Hold authorised OPERTIS identifier in front of the antenna.	
3	Press the coupled lever handle.	The door can be opened smoothly and easily and the latch automatically returns to its initial position after it has been pulled back. The lever handles return completely to the horizontal position and cannot be pushed further upwards.
4	Press the uncoupled lever handles.	The lever handles are "idle", the door cannot be opened. The latch is locked and cannot be pushed in. The lever handles return completely to the horizontal position and cannot be pushed further upwards.
5	Inside of the door: ES7650B and ES6650B only: Pressing the Open button when the lever handles are uncoupled.	The lever handles are coupled for approx. 20 seconds and the door can be opened. The lever handles are then uncoupled again and the latch is locked.
6	Read the fitting information; refer to the eLOCK software system documentation.	

7 Problems and Solutions

Problem	Possible cause	Solution
The Comfort system for glass doors does not open or close.	The identifier is not an OPERTIS identifier.	Use an OPERTIS identifier.
	The identifier is not programmed or does not have the necessary authorisations.	Program the identifier; refer to the eLOCK software system documentation.
	Identifier is defective	Replace the identifier
	Fitting has wrong date or wrong time.	Reset the time; refer to the eLOCK software system documentation.
	Battery is empty or defective.	Change the battery and use an identifier or the Open button to operate the Comfort system for glass doors once.
		Connect an external power supply to the outside of the Comfort system for all-glass doors. Then change the battery and operate the Comfort system for all-glass doors at least once using an identifier or by pressing the Open button.
	Protective film was not removed from battery before installation	Remove protective film from battery.
	The antennas or cables have been mixed up.	Correct the antenna connection.
	The antenna connector has loosened or detached itself.	Plug in the antenna connector fully.
	Antenna is defective.	Replace the antenna.
	Cables are crushed or clamped.	Replace the Comfort system for glass doors.

Problem	Possible cause	Solution
The Comfort system for glass doors does not open or close.	Open button has been pressed.	Wait for the lever handle to uncouple and repeat the authorisation attempt.
	The Comfort system for glass doors is defective.	Perform an emergency mechanical opening, see "emergency mechanical opening" section.
The lever handles are not in the horizontal position (Comfort system for all-glass doors is not working properly).	Lever handles installed at an angle or under pressure.	Install the lever handles correctly and check for smooth and easy movement.
	The lever handles are too heavy.	Replace the existing lever handles with lighter ones or use an additional retraining spring.
Each identifier is authorised for the lock.	Fitting is not programmed ("construction site mode").	Program the fitting; refer to the eLOCK software system documentation.
Latch does not engage.	The latch cut-out in the strike plate does not match the latch position of the Comfort system for glass doors.	Adjust the latch cut-out in the strike plate so that it matches the latch position of the Comfort system for glass doors.
	The door hinges are installed incorrectly.	If possible, reset the door hinges.
	The doorframe is installed incorrectly or is warped.	Install the doorframe correctly or align.

8 Product Specification

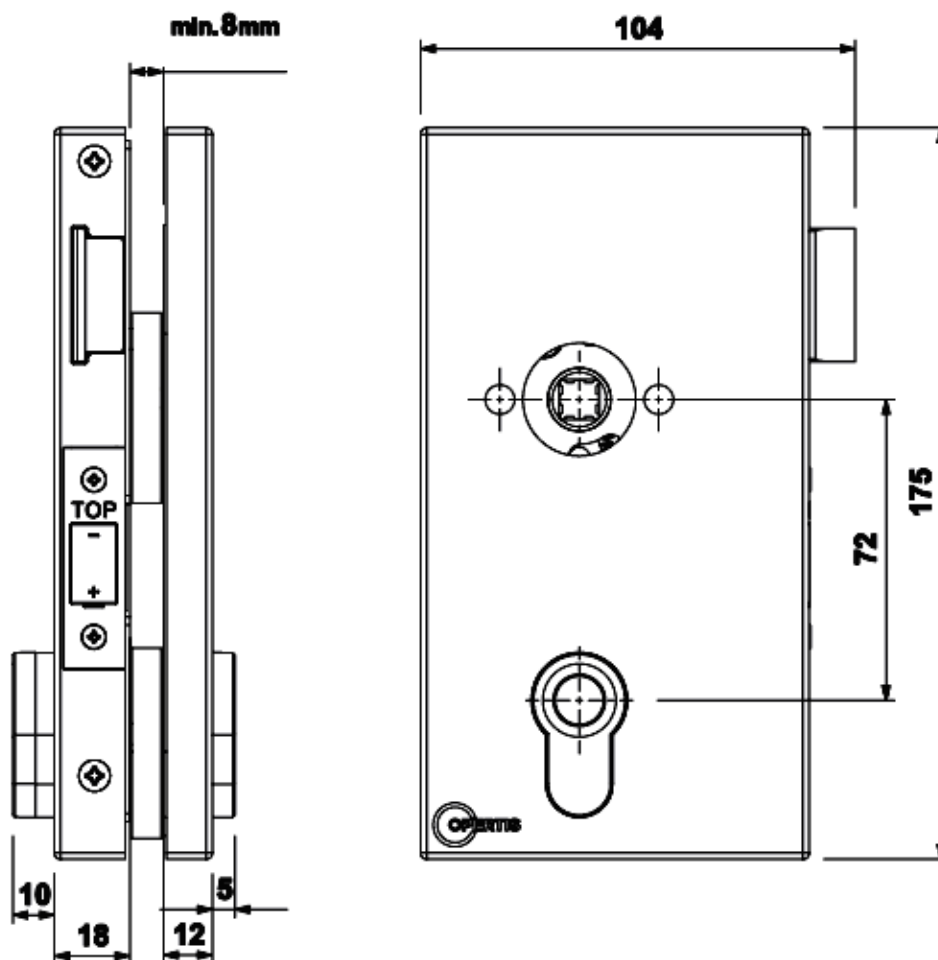
Declaration of Conformity

OPERTIS GmbH herewith declares that the Comfort systems for glass doors are in accordance with the essential requirements and other relevant standards of the Directives 1999/5/EC and 2011/65/EU and conform to CE.

A copy of the Declaration of Conformity can be obtained through OPERTIS Support.

Dimensions

All dimensions given in mm.



Technical data**Surface**

Cover caps	Stainless steel
Profile cylinder cover	Polyamide surface
Lock casing	Steel, zinc coated

Power supply

Supply voltage	3 volt lithium battery CR2 OPERTIS Art. No.: ES0891. Approved battery types: <ul style="list-style-type: none"> ● Energizer 1CR2 ● Panasonic CR-2L/1BP ● VARTA CR2 Professional 		
Battery life:	depending on use conditions and fitting type:		
<ul style="list-style-type: none"> ● Ready to use: (with approx. 10 closures per day) ● Closures (total) ● Standby time 	<ul style="list-style-type: none"> ● Up to 3 years ● up to 25,000 closures ● up to 5 years 		

Specific data

Operating temperature	0 °C to +45 °C		
Storage temperature	-20 °C to +60 °C		
Humidity for operation and storage	max. 95% non-condensing		
Degree of protection to EN 60529	IP 21		
Memory capacity in the fitting:	ES6... for ES5000 plus	ES7... for eLOCK	ES7... for eLOCK LernLöschen
Identifier	60.000	80.000	100
Protection zones	296	30	-
Events memory	512	628	-

9 Disposal

Product



Disposal in accordance with WEEE Directive 2012/19/EC:

- Do not dispose of product in the local household waste.
- Send product back to OPERTIS or dispose of it at a communal collection point for hazardous electronic wastes.

Batteries



- Do not dispose of batteries in the local household waste system, but instead at the public battery collection points.
- Do not throw batteries into a fire.
- Do not store used batteries together.
- Only dispose of batteries if they are discharged.

Notes:



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